

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

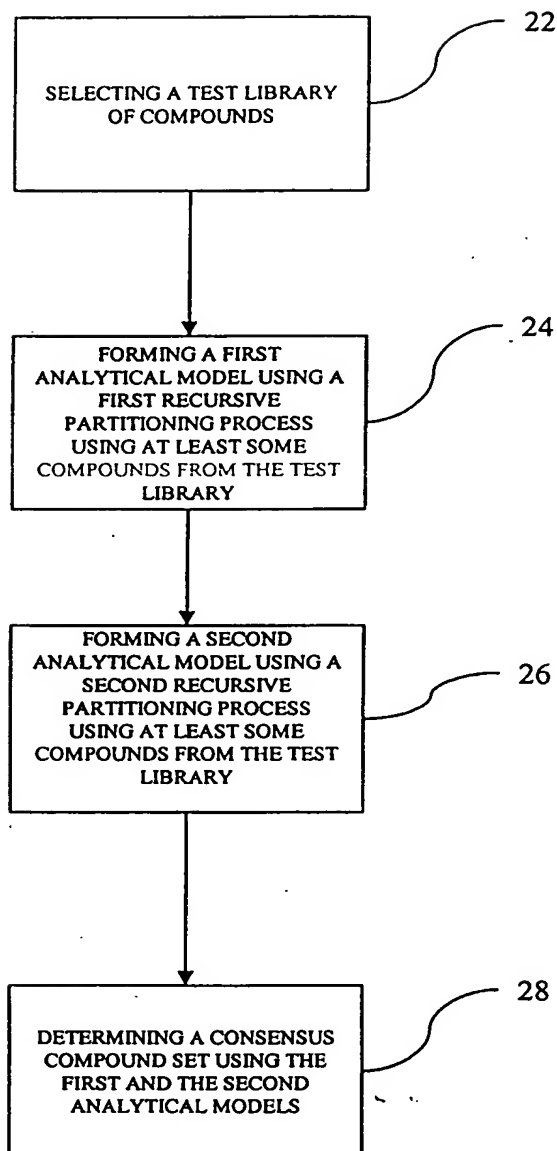


FIG. 1

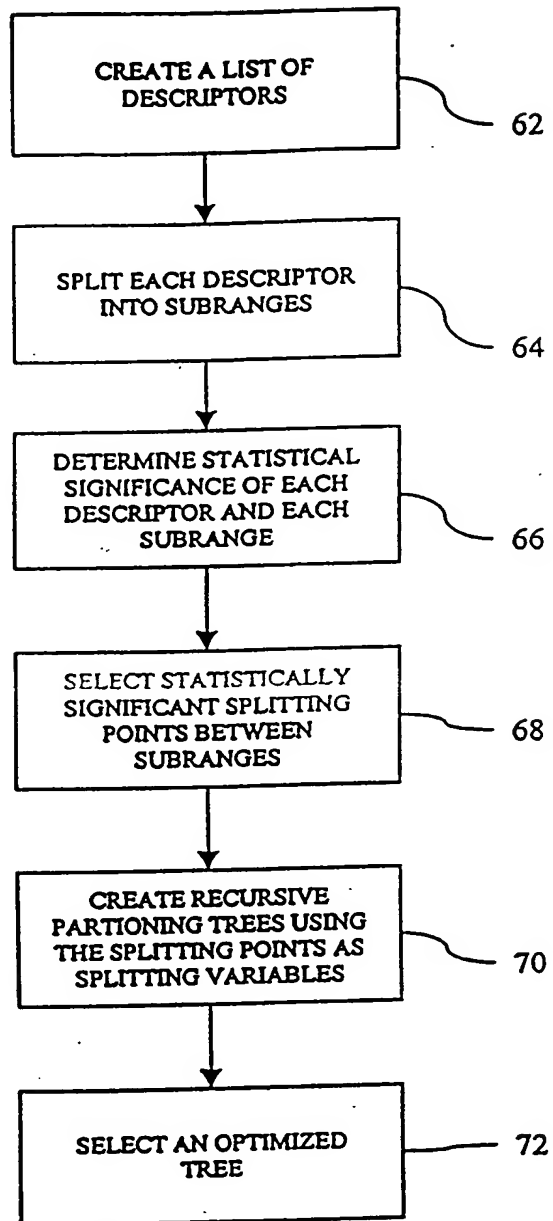
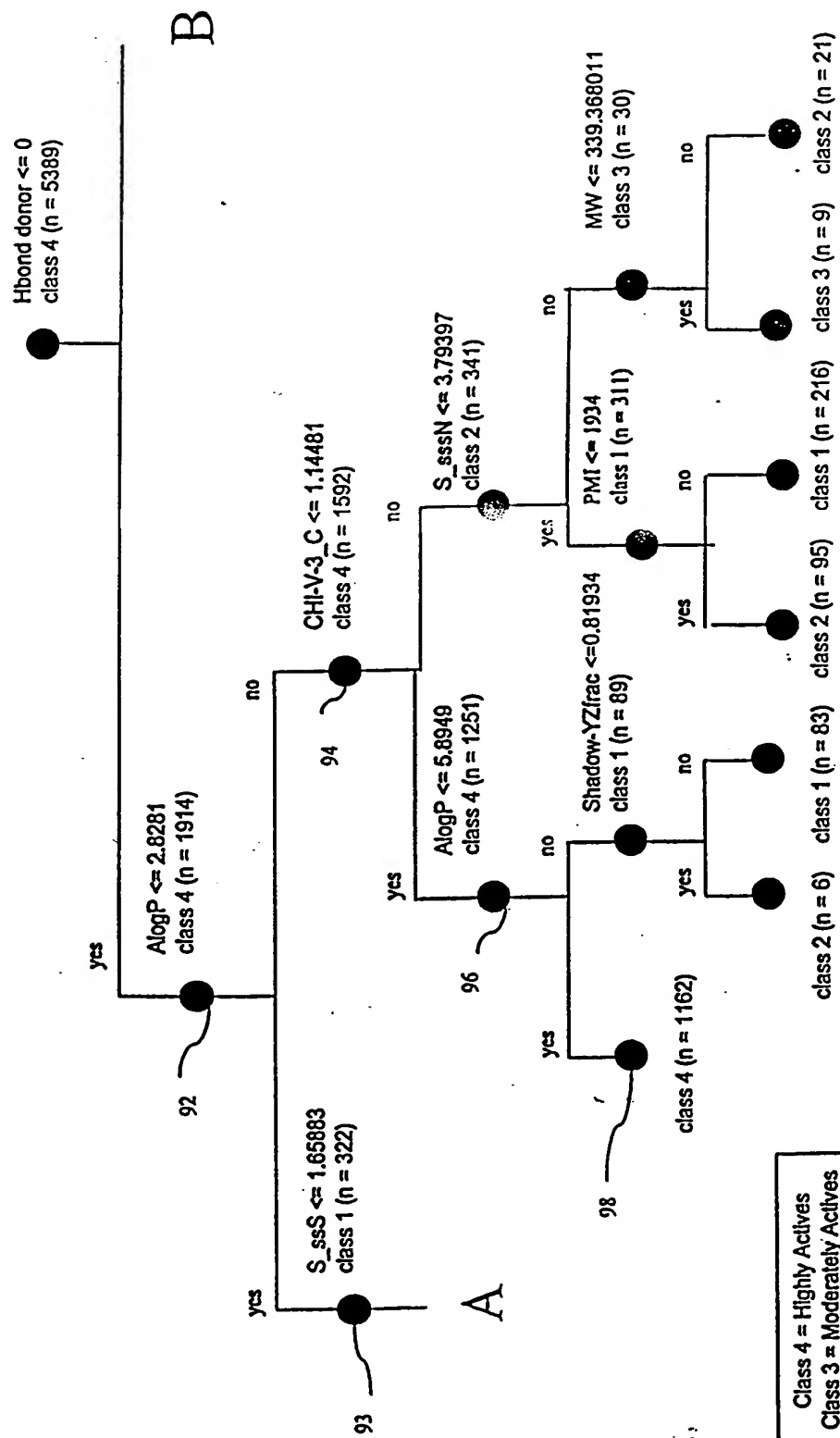


FIG. 2



Class 4 = Highly Actives
Class 3 = Moderately Actives
Class 2 = Weakly Actives
Class 1 = Inactives

FIG. 3

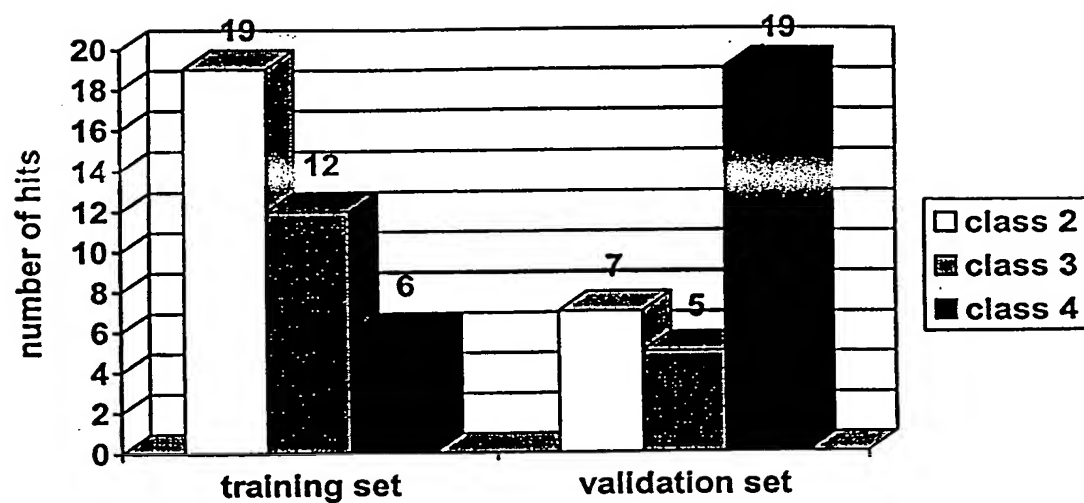


FIG. 4(a)

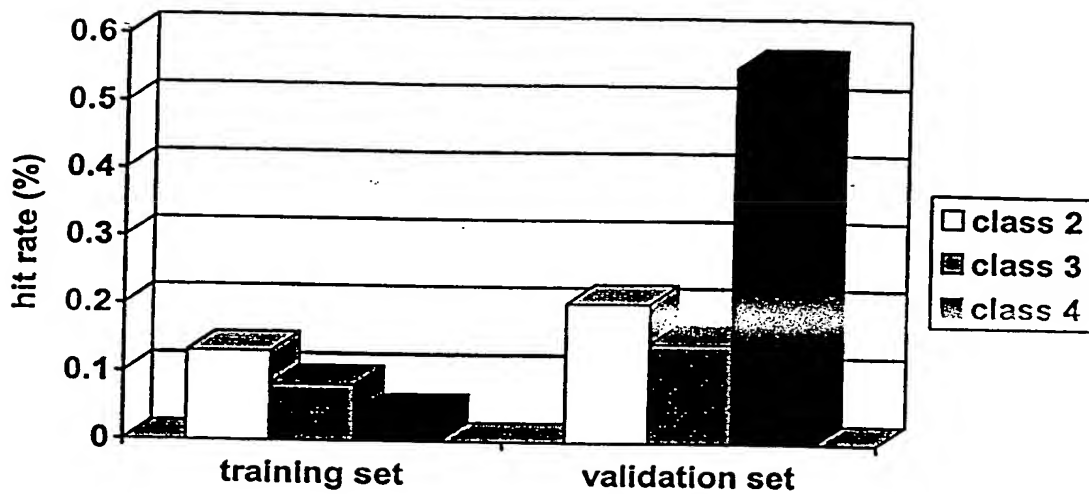


FIG. 4(b)

TABLE I

TD	max. knots	min. samples	% class correct	fold enrichment	% false positives	# selected	# active nodes	# terminal nodes	selected/node
9	85	144	89	14.6	98.2	882	5	27	176.4
9	103	90	100	21.0	97.4	688	7	35	98.3
9	103	54	89	22.8	97.2	562	7	37	80.3
12	107	18	94	65.8	91.8	207	9	59	23.0
12	107	3	94	184.2	77.0	74	11	95	6.7
12	137	1	100	370.0	53.9	39	13	117	3.0

FIG. 5

TABLE II

model	descriptor	TD	max. knots	min. samples	% class correct	fold enrichment	Training Set					
							cpds	total	consensus	% class correct	fold enrichment	% false positives
consensus model 1	C45	9	85	144	89	14.6	882	1245	451	78	24.8	96.9
	C45	9	90	144	83	14.8	814					
consensus model 2	C45	9	85	144	89	14.6	882	1199	632	83	19.0	97.6
	C45	9	80	144	89	13.5	949					
consensus model 3	C45	9	80	144	89	13.5	949	1493	411	73	25.3	96.8
	C45	9	85	144	89	14.6	882					
	C45	9	90	144	83	14.8	814					
consensus model 4	C45	9	85	144	89	14.6	882	996	91	83	114.3	84.6
	C45	12	107	18	94	65.8	207					
consensus model 5	C45	12	107	18	94	65.8	207	241	173	94	78.6	90.2
	C45	12	109	18	94	65.8	207					
consensus model 6	C45	12	107	18	94	65.8	207	354	77	94	176.6	77.9
	C45	12	127	18	100	64.4	224					
consensus model 7	C45	9	85	144	89	14.6	882	1563	165	83	63.0	90.9
	BCUT	8	101	144	94	15.8	848					

FIG. 6

TABLE III

							HTS Eligible		
model	descriptor	TD	max. knots	min. samples	% class correct	fold enrichment	cpds	total	consensus
consensus model 1	C45	9	85	144	89	14.6	73106	155699	26354
	C45	9	90	144	83	14.8	68942		
consensus model 2	C45	9	85	144	89	14.6	73106	168263	50449
	C45	9	80	144	89	13.5	105601		
consensus model 3	C45	9	80	144	89	13.5	105601	235436	21821
	C45	9	85	144	89	14.6	73106		
	C45	9	90	144	83	14.8	68942		
consensus model 4	C45	9	85	144	89	14.6	73106	94930	6241
	C45	12	107	18	94	65.8	28065		
consensus model 5	C45	12	107	18	94	65.8	28065	46842	19720
	C45	12	109	18	94	65.8	25632		
consensus model 6	C45	12	107	18	94	65.8	28065	60999	9987
	C45	12	127	18	100	64.4	30056		
consensus model 7	C45	9	85	144	89	14.6	73106	127864	6309
	BCUT	8	101	144	94	15.8	61067		

FIG. 7

TABLE IV

							Validation Set							
model	descriptor	TD	max. knots	min. samples	% class correct	fold enrichment	cpds	total	consensus	class 4 hits	class 3 hits	class 2 hits	fold enrichment (class 4)	fold enrichment (class 4 & 3)
consensus model 1	C45	9	85	144	89	14.6	2242	2323	1351	18	4	5	31.7	13.0
	C45	9	90	144	83	14.8	1432							
consensus model 2	C45	9	85	144	89	14.6	2242	2342	1553	18	5	5	27.6	11.8
	C45	9	80	144	89	13.5	1653							
consensus model 3	C45	9	80	144	89	13.5	1653	2395	1270	18	4	5	33.7	13.9
	C45	9	85	144	89	14.6	2242							
	C45	9	90	144	83	14.8	1432							
consensus model 4	C45	9	85	144	89	14.6	2242	2267	238	3	3	1	30.0	20.2
	C45	12	107	18	94	65.8	263							
consensus model 5	C45	12	107	18	94	65.8	263	314	210	2	3	1	22.7	19.0
	C45	12	109	18	94	65.8	261							
consensus model 6	C45	12	107	18	94	65.8	263	474	92	2	1	1	51.8	26.1
	C45	12	127	18	100	64.4	303							
consensus model 7	C45	9	85	144	89	14.6	2242	2365	421	9	4	4	50.9	24.7
	BCUT	8	101	144	94	15.8	544							

FIG. 8